IN THE CLAIMS

1. (currently amended) A display control apparatus for controlling a display apparatus which displays ~~a video~~ an image in digital gradation, the image being from a frame of a plurality of frames, the display control apparatus comprising:

inputting means for inputting digital values corresponding to pixel values which compose the ~~video~~ image; and

signal production means for producing a signal for driving said display apparatus so that the display apparatus emits a light of divisional light amounts in such a manner as to be distributed within a time corresponding to display of the frame, the light amounts being obtained by dividing light amounts corresponding to bits which compose the digital values, ~~may be emitted in a such manner as to be distributed within a time corresponding to one screen~~;

wherein both of a first light amount corresponding to a predetermined bit of the bits that compose the digital values and a second light amount corresponding to a bit in a lower order by one bit to the predetermined bit are divided, the first and second light amounts being divided so that a difference between division numbers of the first and second light amounts of adjacent bits whose light amounts are divided is one of 0 and 1, including a case wherein at least one of the division numbers is greater than 2,

wherein the display apparatus includes light emission means for emitting light of variable intensity, the light emission means including at least one light source for emitting the light with variable intensity and a light valve corresponding to each pixel that switches on or off to effect emission of the light from said light source, the light valve being driven by the signal from the signal production means.

2. (original) A display control apparatus according to claim 1, wherein the light amounts corresponding to the bits are divided in a direction of time in which the light is emitted or in a direction of intensity of the light.

3. (original) A display control apparatus according to claim 1, wherein said signal production means produces the signal for driving said display apparatus so that the light of the divisional light amounts obtained by dividing the light amounts corresponding to the bits may be emitted at timings at which the light may be symmetrical within the time corresponding to one screen.

4. (currently amended) A display control apparatus according to claim 1, wherein said signal production means produces the signal for driving said display apparatus so that the light of the divisional light amounts obtained by dividing the light amount corresponding to a predetermined bit and the light of the divisional light amounts obtained by dividing the light amount corresponding to a bit adjacent to the bit may be emitted at timings close to each other within the time corresponding to display of the frame ~~one screen~~.

5. (currently amended) A display control apparatus according to claim 1, wherein said signal production means produces the signal for driving said display apparatus so that the light of the divisional light amounts obtained by dividing the light amount corresponding to the most significant bit is emitted at least at the top and last timings within the time corresponding to display of the frame ~~one screen~~.

6. (canceled).

7. (canceled).

8. (canceled).

9. (canceled).

10. (currently amended) A display control apparatus according to claim 1 ~~7~~, wherein said signal production means produces the signal for causing said light emission means to emit pulse width modulated light or intensity modulated light.

11. (currently amended) A display control apparatus according to claim 1 ~~7~~, wherein said signal production means produces the signal for causing said light emission means to emit pulse width modulated light and intensity modulated light.

12. (currently amended) A display control apparatus according to claim 1 ~~7~~, wherein said light emission means emits light of a plurality of color components.

13. (original) A display control apparatus according to claim 1, wherein said signal

production means produces the signal for causing digital gradation display by a plane sequential rewriting method to be performed.

14. (currently amended) A display control method for controlling a display apparatus which displays ~~a video~~ an image in digital gradation, the image being from a frame of a plurality of frames, the method comprising:

an inputting step of receiving digital values corresponding to pixel values which compose the ~~video~~ image; and

a signal production step of producing a signal for driving said display apparatus so that the display apparatus emits a light of divisional light amounts in such a manner as to be distributed within a time corresponding to display of the frame, the light amounts being obtained by dividing light amounts corresponding to bits which compose the digital values ~~may be emitted in such a manner as to be distributed within a time corresponding to one screen~~;

wherein both of a first light amount corresponding to a predetermined bit of the bits that compose the digital values and a second light amount corresponding to a bit in a lower order by one bit to the predetermined bit are divided, the first and second light amounts being divided so that a difference between division numbers of the first and second light amounts of adjacent bits whose light amounts are divided is one of 0 and 1, including a case wherein at least one of the division numbers is greater than 2,

wherein the display apparatus includes light emission means for emitting light of variable intensity, the light emission means including at least one light source for emitting the light with variable intensity and a light valve corresponding to each pixel that switches on or off to effect emission of the light from said light source, the light valve being driven by the produced signal.